

PTO-1449

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
21058.NPSERIAL NO.  
10/664,045

## LIST OF PRIOR ART CITED BY APPLICANT

APPLICANT Bruening et al.

FILING DATE  
9/16/03

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1625

## U.S. PATENT DOCUMENTS

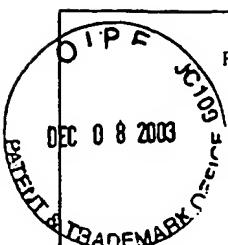
EXAMINER INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
X	A1	4,001,279	Jan 4, 1977	Cram			
X	A2	4,043,979	Aug 23, 1977	Cram			
B	A3	4,943,375	Jul 24, 1990	Bradshaw, et al.			
P	A4	4,952,321	Aug 28, 1990	Bradshaw, et al.			
K	A5	4,959,153	Sep 25, 1990	Bradshaw, et al.			
H	A6	4,960,882	Oct 2, 1990	Bradshaw, et al.			
H	A7	5,039,419	Aug 13, 1991	Bradshaw et al.			
H	A8	5,071,819	Dec 10, 1991	Tarbet, et al.			
H	A9	5,078,978	Jan 7, 1992	Tarbet, et al.			
H	A10	5,084,430	Jan 28, 1992	Tarbet, et al.			
R	A11	5,173,470	Dec 22, 1992	Bruening, et al.			
H	A12	5,179,213	Jan 12, 1993	Bradshaw, et al.			
P	A13	5,182,251	Jan 26, 1992	Bruening, et al.			
H	A14	5,190,661	Mar 2, 1993	Bruening, et al.			
R	A15	5,244,856	Sep 14, 1993	Bruening, et al.			
H	A16	5,273,660	Dec 28, 1993	Bruening, et al.			
H	A17	5,393,892	Feb 28, 1995	Krakowiak, et al.			

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EXAMINER INITIALS		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO

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X	A18	Armstrong, Daniel W., et al., CAPILLARY ELECTROPHORETIC ENANTIOSEPARATIONS USING MACROCYCLIC ANTIBIOTICS AS CHIRAL SELECTORS, Electrophoresis, 1997, 18, pp. 2331-2342
H	A19	Armstrong, Daniel W., et al.; MACROCYCLIC ANTIBIOTICS AS A NEW CLASS OF CHIRAL SELECTORS FOR LIQUID CHROMATOGRAPHY; Analytical Chemistry, Vol. 66, No. 9, May 1, 1994; pp. 1473-1484
H	A20	Armstrong, Daniel W., OPTICAL ISOMER SEPARATION BY LIQUID CHROMATOGRAPHY; Analytical Chemistry, Vol. 59, No. 2, Jan. 15, 1987; pp. 84A-91A.
H	A21	Bradshaw, Jerald S., et al.; ENANTIOMERIC RECOGNITION OF ORGANIC AMMONIUM SALTS BY CHIRAL DIALKYL-DIALKENYL-, AND TETRAMETHYL-SUBSTITUTED PYRIDINO-18-CROWN-6 AND TETRAMETHYL-SUBSTITUTED BIS-PYRIDINO-18-CROWN-6LIGANDS: COMPARISON OF TEMPERATURE-DEPENDENT <sup>1</sup> H NMR AND EMPIRICAL FORCE FIELD TECHNIQUES <sup>1</sup> ; The Journal of Organic Chemistry, 1990, Vol. 55; pp. 3129-3137.



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<i>R</i>	A22	Koshiishi, Ichiro, et al., <i>SIMULTANEOUS DETERMINATION OF VITAMIN C AND ITS CARBAMYLATED DERIVATIVES BY HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY WITH POST-COLUMN DERIVITIZATION</i> , Journal of Chromatography, 806 (1998) 340-344
<i>R</i>	A23	Kostrowicki, J., et al.; <i>MACROCYCLIC POLYFUNCTIONAL LEWIS BASES</i> ; Journal of Chromatography, 454 (1988) 340-344
<i>R</i>	A24	P. Huszthy, et al., <i>ENANTIOMERIC SEPARATION OF CHIRAL [A-(1-NAPHTHYL)ETHYL]AMMONIUM PERCHLORATE BY SILICA GEL-BOUND CHIRAL PYRIDINO-18-CROWN-6 LIGANDS</i> , Models in Chemistry 131 (3-4), pp. 445-454 (1994)
<i>b</i>	A25	Pirkle, WH, et al. <i>CHIRAL STATIONARY PHASES FOR THE DIRECT LC SEPARATION OF ENANTIOMERS</i> ; Advances in Chromatography, 1987;27:73-127
<i>R</i>	A26	Pirkle, WH, et al.; <i>CONSIDERATIONS OF CHIRAL RECOGNITION RELEVANT TO THE LIQUID CHROMATOGRAPHIC SEPARATION OF ENANTIOMERS</i> ; Chem Rev., 1989, 89: 347-362
<i>R</i>	A27	Sogah, G. Dotsevi Yao, et al., <i>CHROMOTOGRAFIC OPTICAL RESOLUTION THROUGH CHIRAL COMPLEXATION OF AMINO ESTER SALTS BY A HOST COVALENTLY BOUND TO SILICA GEL</i> , Journal of the American Chemical Society, 1975, 97:5, pp. 1259-1261
<i>R</i>	A28	Sogah, G. Dotsevo Yao, et al., <i>HOST-GUEST COMPLEXATION. 14. HOST COVALENTLY BOUND TO POLYSTYRENE RESIN FOR CHROMATOGRAPHIC RESOLUTION OF ENANTIOMERS OF AMINO ACID AND ESTER SALTS</i> , Journal of the American Chemical Society, 1979, 101, pp. 3035-3042
<i>R</i>	A29	Sogah, G. Dotsevo Yao, et al., <i>TOTAL CHROMATOGRAPHIC OPTICAL RESOLUTIONS OF <math>\alpha</math>-AMINO ACID AND ESTER SALTS THROUGH CHIRAL RECOGNITION BY A HOST COVALENTLY BOUND TO POLYSTYRENE RESIN</i> , Journal of the American Chemical Society, 1976, 98:10, pp. 1262-1265
<i>R</i>	A30	Taylor, Edward C., et al., <i>S-ALKYLATION AND S-ACYLATION OF THE THIOCARBONYL LIGAND IN METAL COMPLEXES</i> , Journal of the American Chemical Society, 1976, 98:10, pp. 1261-1262
<i>R</i>	A31	Zhang, et al.; <i>ENANTIOMERIC RECOGNITION OF AMINE COMPOUNDS BY CHIRAL MACROCYCLIC RECEPTORS</i> ; Chemical Reviews, 1997, 97, 3313-3361.

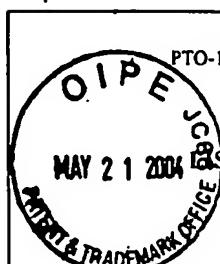
EXAMINER

*Raymond Corry Jr.*

DATE CONSIDERED

*6/4/08*

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication with applicant.

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	A1					
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	A13					
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	A15					
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	A17					

## OTHER PRIOR ART (Including Author, Title, Pertinent Pages, Etc.)

	A18	Singh, Harjit, Subodh Kumar, Anupa Jain and Paramjit Singh, "Synthetic Ionophores. Part 4. Phase Transfer - catalysed Synthesis of Pyridine-containing Macrocycles and Their Ionophore Character, J. CHEM SOC. PERKIN TRANS. 1 1990.	
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